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forwarding said PN-code spread transmission signal and said twice spread payload data signal to an access radio port.

- 33. (New) The method according to claim 32, wherein said wireless network is a CDMA network.
- 34. (New) The method according to claim 32, wherein said orthogonal code is a Walsh code.
- 35. (New) The method according to claim 32, wherein said first spreading step by said PN-code forms a preamble which is prepended to a packet.
- 36. (New) A method for code division switching at an originating access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

despreading a transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

directing the transmission signal within the same access node according to the orthogonal code assignment; and

downconverting to an intermediate frequency.

37. (New) A method for code division switching at an originating access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal

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users located within one or more microport cells, comprising the steps of:

despreading a transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

translating the orthogonal code assignments to a packet address identifying a destination microport augmented to identify a destination access node; and

downconverting to an intermediate frequency.

38. (New) A method for code division switching at an originating terminal, said originating terminal being located within a microport cell of a terrestrial wireless network at a given instant in time, where said network interfaces with an access radio port, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

receiving a transmission signal from an originating terminal user, containing individual user data;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data; and

forwarding said PN-code spread transmission signal and said twice spread payload data signal to an access radio port.

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- 39. (New) The method according to claim 38, wherein said terrestrial wireless network is a CDMA network.
- 40. (New) The method according to claim 38, wherein said spreading code is a PN-code.
- 41. (New) The method according to claim 38, wherein said orthogonal code sequence is a Walsh code.
- 42. (New) The method according to claim 38, wherein said first spreading step by said PN-code forms a preamble which is prepended to a packet.
- 43. (New) A method for code division switching at an originating access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

despreading a transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

translating the orthogonal code assignments to a packet address identifying a destination microport augmented to identify a destination access node;

downconverting to an intermediate frequency;

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placing said despread transmission signal into a packet with said packet address; and

transmitting said packet to an access node for further transmission over a network.

- 44. (New) The method according to claim 43, wherein said network is a private wireline network.
- 45. (New) The method according to claim 43, wherein said network is a packet switched network.
- 46. (New) The method according to claim 43, wherein said terrestrial wireless network is a CDMA network.
- 47. (New) The method according to claim 44, wherein said private network interfaces with a public network via a routing node.
- 48. (New) A method for code division switching at a destination access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

receiving a packet switched transmission signal from an access node via a network;

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translating a packet address into an orthogonal code sequence;

respreading said orthogonal code sequence into a transmission signal at an intermediate frequency;

upconverting said respread transmission signal; and

transmitting said respread upconverted transmission signal over the air to a destination terminal user.

49. (New) A method for code division switching at a destination access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

acquiring a preamble, which has a PN-code;
processing said PN-code to insure synchronization;
sending an acknowledgement; and
receiving payload data.

- 50. (New) The method according to claim 49, wherein said preamble is acquired using a serial/parallel acquisition circuit.
- 51. (New) The method according to claim 49, wherein said acknowledgement comprises required adjustments for an orthogonal transmission that follows.
- 52. (New) The method according to claim 49, wherein said payload data are acquired by dispreading by orthogonal and PN-codes.

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53. (New) A method for code division switching used for interfacing a terrestrial wireless network with a network, where said wireless network interfaces with a plurality of wireless terminal users, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data;

forwarding, at the originating terminal, said PN-code spread transmission signal and said twice spread payload data signal to an access radio port;

despreading, at an originating access radio port, the transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

translating, at the originating access radio port, the orthogonal code assignments to a packet address identifying a destination microport augmented to identify a destination access node;

downconverting, at the originating access radio port, to an intermediate frequency;

depositing, at the originating access radio port, said despread transmission signal into a packet with said packet address;

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transmitting, from the originating access radio port, said packet to an originating access node for further transmission over a network;

receiving, at a destination access radio port, said packet switched transmission signal from a destination access node via a core network;

translating a packet address into an orthogonal code sequence;

respreading said orthogonal code sequence into a transmission signal at an intermediate frequency;

upconverting said respread transmission signal; and

transmitting said respread upconverted transmission signal over the air to a destination terminal user.

54. (New) A method for code division switching used for interfacing a terrestrial wireless network with a core network, where said wireless network interfaces with a plurality of wireless terminal users, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data;

forwarding, at the originating terminal, said PN-code spread transmission

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signal and said twice spread payload data signal to an access radio port;

despreading, at an originating access radio port, the transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

directing the transmission signal within the same access node according to the orthogonal code assignments;

downconverting, at the originating access radio port, to an intermediate frequency;

depositing, at the originating access radio port, said despread transmission signal into a packet with said packet address;

transmitting, from the originating access radio port, said packet to an originating access node for further transmission over a network;

receiving, at a destination access radio port, said packet switched transmission signal from a destination access node via a core network;

translating a packet address into an orthogonal code sequence;

respreading said orthogonal code sequence into a transmission signal at an intermediate frequency;

upconverting said respread transmission signal; and

transmitting said respread upconverted transmission signal over the air to a destination terminal user.